

PHENIX WEEKLY PLANNING



11/12/2009
Don Lynch

Completed Tasks

Task

Start of shutdown tasks
Erected scaffolds in stations 1, 2 and 3 of MMS
Tools for RPC Factory: tilt table and burn in test stand
Designed and fabricated RPC installation components, fixtures
Procedures and work permits
Designed, fabricated and assembled PC1 repair fixture
Installed station 1 MuTrigger FEE upgrades
Repaired faulty DC FEMs
Removed HBD East for repairs & Reinstalled, cabled & aligned
Massive prep for installation of RPC3 North
Replaced failed PC1 module and associated PC1 repairs
Installed RPC3 North east & west bases
DC East Repairs
Installed all RPC $\frac{1}{2}$ octants & tested in place, 1W-8W survey is done
RPC3N racks (2) in tunnel west trough
MuTrigger FEE radiation monitor slide installed
RPC prototype absorber de-installed and stowed
EC returned to IR

RPC3 North remaining Tasks

- Final survey (West side is done)
- Install gas system and distribution
- Restore gap 5 piping and wiring
- Install rack components and wire up $\frac{1}{2}$ - octants
- Install new vapor barrier
- Install heaters and thermostats
- Re-Install shielding
- Final wiring and commissioning

TECHNICAL SUPPORT NOON

This Week 11/9-11/13

Task

Start Date

End Date

TECHNICAL SUPPORT ROOM

Install new gap5 N cable & pipe supports, cables and piping and leak test piping

In progress

11/13

Move MuID Collars to IR

Done

Done

MuTr HV and FEE test and evaluation as MuTrigger FEE's & RPC's are installed

Done

Done

RPC3 North Installation of remaining $\frac{1}{2}$ -Octants

Done

Done

Close MMN Hatch and closeout WP

11/20

11/20

Install rack components in RPC3 N racks

10/1

11/13

Attach cables to RPC3 N racks and to Detector $\frac{1}{2}$ octants

10/1

11/13

Disconnect electric & Fiber in EC

Done

Done

Remove ladder & dumb waiter from EC & Fold up EC platforms in AH

Done

Done

Remove IR Floor plates and move 12 ton cart to AH

Done

Done

Move EC to IR

Done

Done

Reconnect electric and fiber to EC

In Progress

11/13



Can we keep these?



MuID Collars ready in IR
Ready for installation





12 Ton Cart and IR
Floor Plates are out



MuID & RPC Cable Management
with new Cable Tray

11/12/2009



East Carriage is in



RPC3 North
All $\frac{1}{2}$ octants are
installed, aligned
and tested



11/12/2009



11/12/2009

Continuing Tasks currently underway (elec.)

Task

Start Date End Date

Remove temporary MegaPAC in sRPC1 rack and install new full MegaPAC and finish controls for it

In Progress

12/1

VTX/FVTX LV Dist system evaluation (VTX Done)

In Progress

12/1

Prep for production of up to 39 boards in 4 crates (VTX/FVTX)

In Progress

12/1

VTX/FVTX cooling system interlock design

Awaiting
more info

TBD

Evaluate possible design for 6x1 GL1 L1 triggers

DesignIn
Progress

12/1

AH Crane 110 switch for lockout

In Progress

12/1

Test/replace rack transient suppression

7/20

12/1

Cordless phones in tunnel

7/20

12/1

Individual relays on all HV supplies

7/20

12/1

More Continuing Tasks currently underway (elec., cont'd.)

Task	Start Date	End Date
Add BNL Fire Alarm Zone status lights in the PCR including alarms.	Done	Done
Move LCVS Fan and LCVS backup Fan control switches from the Bypass Box to rack PCR2	Done	Done
Re-organize/re-wire panel front on rack PCR2 to accommodate the above and allow for ease of use and readability by staff	Done	Done
Remove existing SMCS trip channel LED boxes and Reset switch/indicator panel from rack PCR2	Done	Done
Add new alarms into Ronan annunciator System and re-configure as necessary.	Done	Done
Install new camera electronics into rack PCR5	Done	Done

More Continuing Tasks currently underway (mechanical)

TECHNICAL SUPPORT NOON

Task

Start Date End Date

Design supports for Beampipe upgrade
 Fan Tray replacements (as time permits)
 Design support for FOCal
 Design support for FVTX
 Design & Fabrication support for VTX

In Progress 11/30
 In Progress 11/30
 In Progress 11/30
 In Progress 11/30
 In Progress 11/30

Continuing Tasks currently underway (gas)

Task

Start Date End Date

Get AC's installed in mixing house

Investigate shed/larger bottles for R134A

Replace damaged compressed air flowmeter

Add check valves to some supply lines (as needed)

Design and build heat exchanger for HBD system

Replace/ regenerate HBD purifier and driers (late Fall)

Send mass flowmeters out for recalibration (DC/PC, MuID, TOF.W)

Replace/upgrade gas house PC's

Run gas lines to North tunnel

Design and build gas humidifier

Layout and build North distribution panel



In Progress

12/1

7/20

12/1

7/20

12/1

7/20

12/1

In Progress

12/1

In Progress

10/9

In Progress

12/1

In Progress

12/1

7/20

12/1

In Progress

12/1

In Progress

12/1

Schedule for the rest of November

Task

Start Date End Date

- Install heaters and thermostat(s) for RPC3N thermal control
- Reinstall PHENIX North tunnel shielding
- Replace EC water hoses below EC and test
- Reinstall ladder & dumb waiter on EC & Fold down EC platforms in IR
- Move MMS north, Install MuID Collars
- DC East and West repairs
- Pink sheets, white sheets, blue sheets
- Assemble shield wall base and wall in AH
- Thanksgiving Holiday - no work
- Roll in shield wall
- Start Run 10, All shutdown activities completed

11/2 11/20

11/2 11/20

11/2 11/20

11/12 11/20

11/13 11/13

11/16 11/25

11/16 12/1

11/23 11/30

11/26 11/27

11/30 11/30

12/1 12/1



Expected IR Configuration For Remainder of Shutdown '09

Now-11/13 MMS south, CM in run position, EC and WC can be moved east west ~3 ft

11/13-12/1 MMS & CM in run position, EC and WC can be moved east west ~3 ft

These dates are approximate and subject to change

CM will not be moved for remainder of shutdown... no access to station 1 north

2009 Building Maintenance Issues

TECHNICAL SUPPORT NOON

- Roof leaks in utility bathroom at northwest corner behind tech offices and over door between rack room and assembly hall
- Heat wrap tape for trailer bathroom toilet drains to prevent freeze/clogging in winter.
- Improved Rack Room AC performance: New AC on order
- General maintenance for Trailer Offices and Gas Mixing House stairs, ramps and siding, gutters, etc. (cleaning and repairing worn/rotted wood): Carter has placed work orders
- Icy conditions at mixing house north stairs: Need new Mixing House Gutter



1. Work observations last week indicated several possible deficiencies:
 - a. Incorrect use of a step ladder (RPC cable tray installation)
 - b. Working outside of safety rails without fall protection (RPC cable tray installation)
 - c. Handling a rigged load without gloves (RPC $\frac{1}{2}$ octant installation)
 - d. Exposing fingers to a potential pinch point (RPC $\frac{1}{2}$ octant installation)
 - e. Worker passing under a rigged load (RPC $\frac{1}{2}$ octant installation)
2. Lessons learned Hanford worker falls from scaffolding
 - a. Change in work plan
 - b. Change in work conditions
 - c. Schedule pressures
 - d. Worker distraction

3. Performance Appraisals Done and Approved by Department.

4. PHENIX Procedure Review Current Status:

147 Procedures Identified

76 Made Inactive (not currently in use, will require revision to re-activate if and when necessary, available for reference purposes)

12 CAD procedures relevant to PHENIX, all are current and up-to- date

43 PHENIX approved procedures.
 26 are currently under review
17 are current and up-to-date

16 Proposed/Draft Procedures (never previously formalized)

Coming Soon

Run 10

Prep for the '10 Shutdown

And Summer '10 Shutdown

Planning Starts Now.



*I hope everyone enjoyed
their holiday yesterday
and remembered to
remember our veterans*

Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

